

Name of the Faculty : Suman Kumar Ghosh

Designation : Assistant Professor

Department : Mechanical Engineering

No. of Publication : 39

**Journal Publication : 1**

Type of Journal	DOI No.	Name of the Article	Name of the Author	ISSN No.	Year of Publication
SCOPUS	<a href="https://doi.org/10.18311/jmmf/2023/36038">https://doi.org/10.18311/jmmf/2023/36038</a>	Comparative Study of Wear Behaviour of Heat Treated 304 Austenitic and 410 Martensitic Stainless Steel	Arijit Mukherjee, Santosh Kumar, Syan Paul, Soumak Bose, Suman Kumar Ghosh, Samrat Biswas	0022-2755	2023

**Book Chapter Publication : 38**

DOI No.	Name of the Article	Name of the Author	ISBN No.	Year of Publication
<a href="https://doi.org/10.62906/bs.book.209">https://doi.org/10.62906/bs.book.209</a>	A Comprehensive Review on Wire Electrical Discharge Machining (WEDM) Process Parameters: Effects, Optimization and Applications	Suman Kumar Ghosh	978-93-6233-705-4	2023
<a href="https://doi.org/10.62906/bs.book.209">https://doi.org/10.62906/bs.book.209</a>	Study of Kerf Width in Wire EDM of EN36B Steel: Key Factors and Optimization Strategies	Suman Kumar Ghosh	978-93-6233-705-4	2023
<a href="https://doi.org/10.62906/bs.book.209">https://doi.org/10.62906/bs.book.209</a>	Revolutionizing Mobility: Advanced Hydroelectric and Electric Vehicle Technologies for Sustainable Development	Suman Kumar Ghosh	978-93-6233-705-4	2023
<a href="https://doi.org/10.62906/bs.book.209">https://doi.org/10.62906/bs.book.209</a>	Process Optimization and Material Characterization in WAAM	Suman Kumar Ghosh	978-93-6233-705-4	2023

<a href="https://doi.org/10.62906/bs.book.209">https://doi.org/10.62906/bs.book.209</a>	Helical Flow Dynamics: Numerical Simulation and Analysis of Helicity Distribution in Cyclone Separators	Suman Kumar Ghosh	978-93-6233-705-4	2023
<a href="https://doi.org/10.62906/bs.book.209">https://doi.org/10.62906/bs.book.209</a>	Advanced Modal Analysis of NACA 0012 Airfoil Wings: Unveiling Higher-Order Deformation Modes using ANSYS Workbench	Suman Kumar Ghosh	978-93-6233-705-4	2023
<a href="https://doi.org/10.62906/bs.book.209">https://doi.org/10.62906/bs.book.209</a>	Thermal Pathways: Investigating Temperature Distribution Along the Topmost Portion of a 2D Steady-State Heat Conduction Domain	Suman Kumar Ghosh	978-93-6233-705-4	2023
<a href="https://doi.org/10.62906/bs.book.209">https://doi.org/10.62906/bs.book.209</a>	Stress Exploration: Unveiling Minimum Combined Stress in a Cantilever Beam using ANSYS	Suman Kumar Ghosh	978-93-6233-705-4	2023
<a href="https://doi.org/10.62906/bs.book.209">https://doi.org/10.62906/bs.book.209</a>	Bending Perspectives: Analyzing Total Deformation in a Cantilever Beam using ANSYS	Suman Kumar Ghosh	978-93-6233-705-4	2024
<a href="https://doi.org/10.62906/bs.book.209">https://doi.org/10.62906/bs.book.209</a>	Unveiling the Potential of Hydroelectric Power Systems towards Sustainability	Suman Kumar Ghosh	978-93-6233-705-4	2024
<a href="https://doi.org/10.62906/bs.book.209">https://doi.org/10.62906/bs.book.209</a>	Influence of Crack Location on the Natural Frequencies of Composite Beams	Suman Kumar Ghosh	978-93-6233-705-4	2024
<a href="https://doi.org/10.62906/bs.book.209">https://doi.org/10.62906/bs.book.209</a>	Dynamic Revelations: Advanced Modal Analysis of a Cantilever Beam using ANSYS	Suman Kumar Ghosh	978-93-6233-705-4	2024
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<a href="https://doi.org/10.62906/bs.book.209">https://doi.org/10.62906/bs.book.209</a>	Modal Analysis and Directional Bending Moment of a Cantilever Beam using ANSYS	Suman Kumar Ghosh	978-93-6233-705-4	2024
<a href="https://doi.org/10.62906/bs.book.209">https://doi.org/10.62906/bs.book.209</a>	Vibrational Insights: Modal Analysis of a Cantilever Beam using ANSYS	Suman Kumar Ghosh	978-93-6233-705-4	2024
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<a href="https://doi.org/10.62906/bs.book.211">https://doi.org/10.62906/bs.book.211</a>	Advances and Applications of Wire Arc Additive Manufacturing (WAAM) & Process Optimization and Material Characterization in WAAM	Suman Kumar Ghosh	978-93-6233-761-0	2024
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<a href="https://doi.org/10.62906/bs.book.211">https://doi.org/10.62906/bs.book.211</a>	Vibrational Insights: Modal Analysis of a Cantilever Beam Using ANSYS	Suman Kumar Ghosh	978-93-6233-761-0	2024
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<a href="https://doi.org/10.62906/bs.book.211">https://doi.org/10.62906/bs.book.211</a>	Modal Analysis of a NACA 0012 Airfoil Wing Using ANSYS Workbench	Suman Kumar Ghosh	978-93-6233-761-0	2024
<a href="https://doi.org/10.62906/bs.book.211">https://doi.org/10.62906/bs.book.211</a>	Influence of Fiber Orientation on the Vibration Characteristics of Composite Beams with Cracks	Suman Kumar Ghosh	978-93-6233-761-0	2024

## Patent

- i. Title of the invention- Solar powered outdoor stand ceiling fanName of the applicant-Swami Vivekananda University, Name of the Inventor-Suman KumarGhosh.Application No202331054340 A
- ii. Title of the invention- Mini belt grinder ,Name of the applicant-Swami Vivekananda University, Name of the Inventor-Suman Kumar Ghosh.Application No202331054863 A
- iii. “Mini Conveyor: Enhancing Material Handling with Geneva Mechanism”, Soumya Ghosh, Arijit Mukherjee, Suman Kumar Ghosh, Sayan Paul, Abhishek Dhar, Saurabh Adhikari, Subhranil Som, Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks,

Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Application Number 202431059750 A]

iv. “Portable Air Conditioning Innovation: Harnessing Thermal Peltier Technology”, Samrat Biswas, Sayan Paul, Soumya Ghosh, Suman Kumar Ghosh, Abhishek Dhar, Saurabh Adhikari, Subharnil Som, Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Application Number 202431060584A]

v. “River Cleaning Boat: Innovating Waterway Maintenance for Environmental Conservation”, Samrat Biswas, Sayan Paul, Suman Kumar Ghosh, Soumya Ghosh, Abhishek Dhar, Saurabh Adhikari, Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Application Number 202431060629A]

vi. “Mini Hydraulic Jack: Compact Solution for Lifting and Support”, Sayan Paul, Arijit Mukherjee, Soumya Ghosh, Suman Kumar Ghosh, Abhishek Dhar, Saurabh Adhikari, Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Application Number 202431060077A]

vii. “Harnessing Hydro Energy on a Small Scale: Portable Mini Hydropower Plants”, Abhishek Poddar, Soumya Ghosh, Arijit Mukherjee, Suman Kumar Ghosh, Abhishek Dhar, Saurabh Adhikari, Subharnil Som, Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Application Number 202431060513A]

viii. “Safe Guard: Gas Leakage Detection and Protection System for Home and Industries”, Sayan Paul, Soumya Ghosh, Suman Kumar Ghosh, Samrat Biswas, Abhishek Dhar, Saurabh Adhikari, Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Application Number 202431064477A]